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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/577,632	12/21/2006	Rudolf Singer	UMICORE 0163-US	9647		
23719	7590	06/15/2011	EXAMINER			
KALOW & SPRINGUT LLP 488 MADISON AVENUE 19TH FLOOR NEW YORK, NY 10022				DEHGHAN, QUEENIE S		
ART UNIT		PAPER NUMBER				
1741						
MAIL DATE		DELIVERY MODE				
06/15/2011		PAPER				

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/577,632	SINGER, RUDOLF
	<b>Examiner</b>	<b>Art Unit</b>
	QUEENIE DEHGHAN	1741

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 10 January 2011.

2a) This action is **FINAL**.                            2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,2,6-17 and 19-32 is/are pending in the application.

4a) Of the above claim(s) 6-13,19-21 and 27-30 is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1,2,14-17,22-26,31 and 32 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 10, 2011 has been entered.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 2, 14-17, and 22-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "substantially similar" in claim 1 is a relative term which renders the claim indefinite. The term "substantially similar" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is unclear how one would determine if the metal is substantially similar to the metal of the outer wall, i.e. to what degree would it be considered similar enough?

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 14-17, 23-26 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cozine (3,364,004) in view of Singer et al. (6,679,085). Regarding claims 1-2, 23 and 31, Cozine teaches a mandrel for producing glass tubes (col. 1 lines 29-32), the mandrel with rear and front ends that have a decreasing diameter and comprising a blowpipe, wherein the blowpipe comprises at least one self supporting tube, the self-supporting tube comprising an outer wall (i.e. 36) and inner self-supporting structure, such as three circumferentially placed thrusts (29) (figures 2 and 3, col. 3 lines 6-38). The tube is interpreted as a jacket since it sleeves the air pipe (24). Furthermore, Cozine teaches the blowpipe is made of metal such as Nichrome metal (col. 3 lines 63-64), which interpreted as all the parts of the blowpipe is made of the same metal. This would be obvious to one of ordinary skill in the art at the time of the invention since all the parts will be exposed to the same high temperature conditions of the molten glass and thus would require a similar metal material of similar strength.

6. However, Cozine does not teach the metal material being an oxide dispersion strengthened platinum alloy. Singer teaches employing an oxide-dispersed platinum alloy for shaping tools used for manufacturing hollow glass shaping because of it adherence to glass and little corrosion or oxidation (col. 6 lines 30-36). It would have been obvious to one of ordinary skill in the art at the time of the invention to have

employed an oxide dispersion strengthened platinum alloy as the metal material in the apparatus of Cozine as it is known for its functionality in hollow glass shaping tools.

7. Regarding claims 14 and 26, Cozine teaches a rear end biasing means, such as spring (50), adapted to assure a tight fit between a body (21) and the jacket, which is in the blowpipe (20) (figures 1 and 2, col. 5 lines 10-16).

8. Regarding claim 15, the mandrel of Cozine is longitudinally symmetrical along its longitudinal axis since it comprises of concentric parts (figures 1-3).

9. Regarding claim 16, the mandrel is a Danner blowpipe (col. 1 lines 34-50).

10. Regarding claim 17, the mandrel provides an inner channel for blowing gas through and allows treating the inside surface of the glass tube with at least one gas (col. 3 lines 5-23).

11. Regarding claims 24 and 25, Cozine teaches a fixed bearing, such as cap 30, at the front end of the mandrel as well as a floating bearing at the rear end of the mandrel, both adapted to rotate the mandrel about its longitudinal axis (col. 2 line 70 to col. 3 line 5, col. 4 lines 46-58, col. 5 lines 23-30).

#### ***Allowable Subject Matter***

12. Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 22 recites a coating on the metal jacket that is capable of being released upon contact with the inside surface of the glass tube. This limitation implies that the metal jacket is the outermost layer of the mandrel since it is this layer that the glass tube is in contact with. Although such coatings are known in

the art for mandrels used for the Danner process, the prior art fails to teach a mandrel for making glass tubes or rod comprising a metal jacket which the outermost layer of the mandrel, wherein the metal jacket has an outer wall and inner self-supporting strut/thrust and/or rings made of the same metal, and comprising the specified coating.

***Response to Arguments***

13. Applicant's arguments with respect to Cozine have been considered but are moot in view of the new ground(s) of rejection. Also, since claim 18 has been cancelled, the rejection, which relied on Frye, has been withdrawn and the arguments regarding Frye are moot.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to QUEENIE DEHGHAN whose telephone number is (571)272-8209. The examiner can normally be reached on Monday through Friday 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Daniels can be reached on 571-272-2450. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Queenie Dehghan/  
Examiner, Art Unit 1741